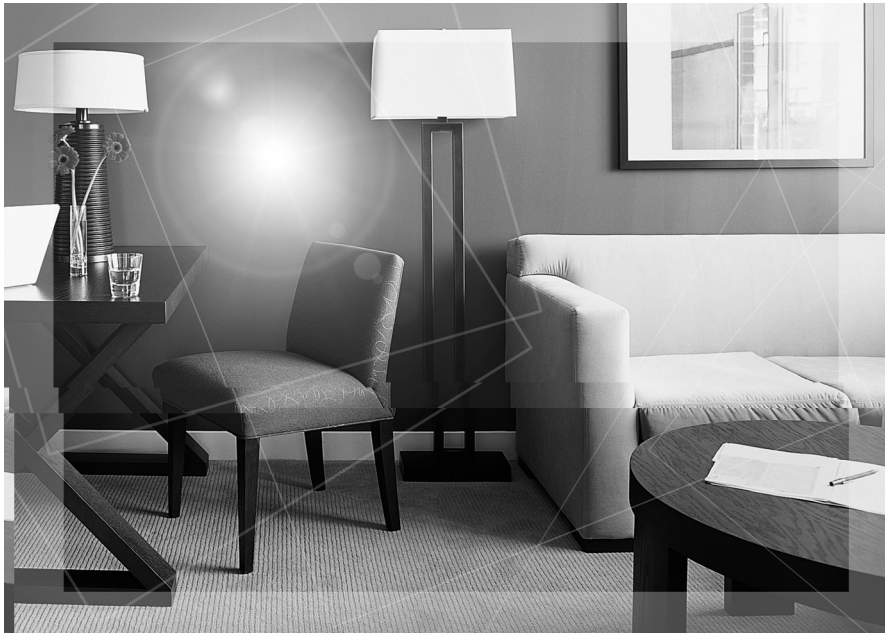
Panasonic

2.4 GHz Digital Cordless Phone

Operating Instructions

Model No. KX-TG2312

Pulse-or-tone dialing capability



The unit is Caller ID compatible. To display the caller's name and phone number, you must subscribe to Caller ID service.

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for 6 hours before initial use.

Panasonic World Wide Web address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Thank you for purchasing your new Panasonic cordless telephone.

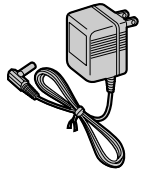
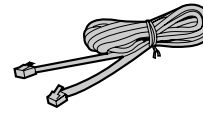
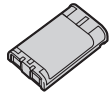
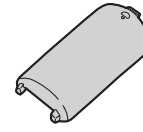
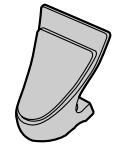
Please read the IMPORTANT SAFETY INSTRUCTIONS on page 47 before use. Read and understand all instructions.

Caller ID, Call Waiting and Voice Mail Service, where available, are telephone company services. After subscribing to Caller ID this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting with Caller ID Services (CWID). After subscribing to Voice Mail Service, this unit will give you visual indication to let you know when there are messages in the mailbox.

Attach your purchase receipt here.

Accessories (included)

For extra orders, call 1-800-332-5368.
For hearing or speech impaired TTY users, call 1-866-605-1277.

☐ AC Adaptor (p. 8) Order No. PQLV1Z (PQLV1)  one	☐ Telephone Line Cord (p. 8) Order No. PQJA10075Z  one
☐ Battery (p. 9) Order No. HHR-P104  one	☐ Handset Cover (p. 9) Order No. PQKK10140Z1  one
☐ Belt Clip (p. 39) Order No. PQKE10375Z1 one	☐ Shoulder Rest Attachment (p. 39) Order No. PQKE10364Z1  one

Contents

Preparation

Location of Controls 6

Installation 8

Connections 8

Installing the Battery in the Handset 9

Battery Charge 9

Programmable Settings 11

Programming Guidelines . . 11

Function Menu Table 12

Display Language 13

Dialing Mode 13

Line Mode 14

Auto Talk 14

Ringer Volume 15

Ringer Tone 16

LCD Contrast 16

Basic Operation

Making Calls 17

Answering Calls 20

Caller ID Service 21

Using the Caller List 22

Viewing the Caller List 22

Calling Back from the Caller List 23

Editing the Caller's Phone Number 24

Caller ID Number Auto Edit 25

Storing Caller Information in the Phone Book 26

Erasing Caller Information . . 27

Advanced Operation

Phone Book 28

Storing Names and Numbers 28

Dialing from the Phone Book 30

Chain Dial 31

Editing an Item in the Phone Book 32

Erasing an Item in the Phone Book 32

Voice Mail Service 33

Storing a Voice Mail Access Number 33

Setting Voice Mail (VM) Tone Detection 34

Listening to Voice Mail Messages 35

Special Features 36

Handset Locator 36

Temporary Tone Dialing (For Rotary or Pulse Service Users) 36

Muting Your Conversation . . 36

Using the PAUSE Key (For PBX Line/Long Distance Calls) 36

For Call Waiting Service Users 37

FLASH Button 37

Key Tone 38

Re-registering the Handset 38

Useful Information

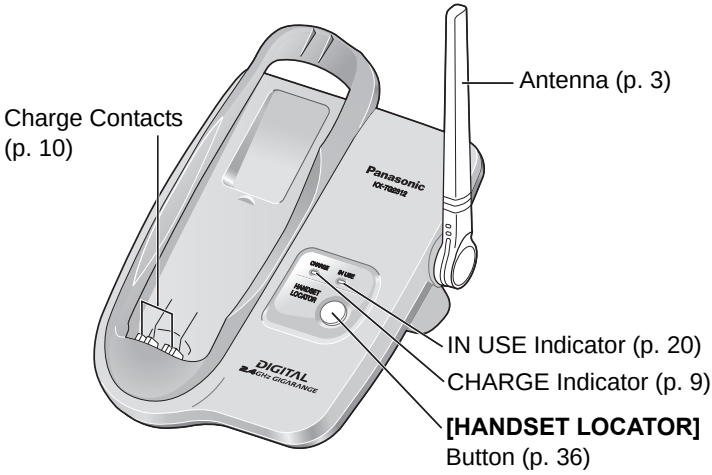
Belt Clip 39
Shoulder Rest Attachment . . 39
Wall Mounting 40
Optional Headset 41
Direct Commands 42
If the Following Appear on Your Display... 43
Troubleshooting 44
Important Safety Instructions 47
FCC and Other Information 48
Index 51
Warranty 53
Specifications 55

Important:
Throughout these Operating Instructions, **Handset** and **Base Unit** are used to indicate with which unit an operation can be performed.

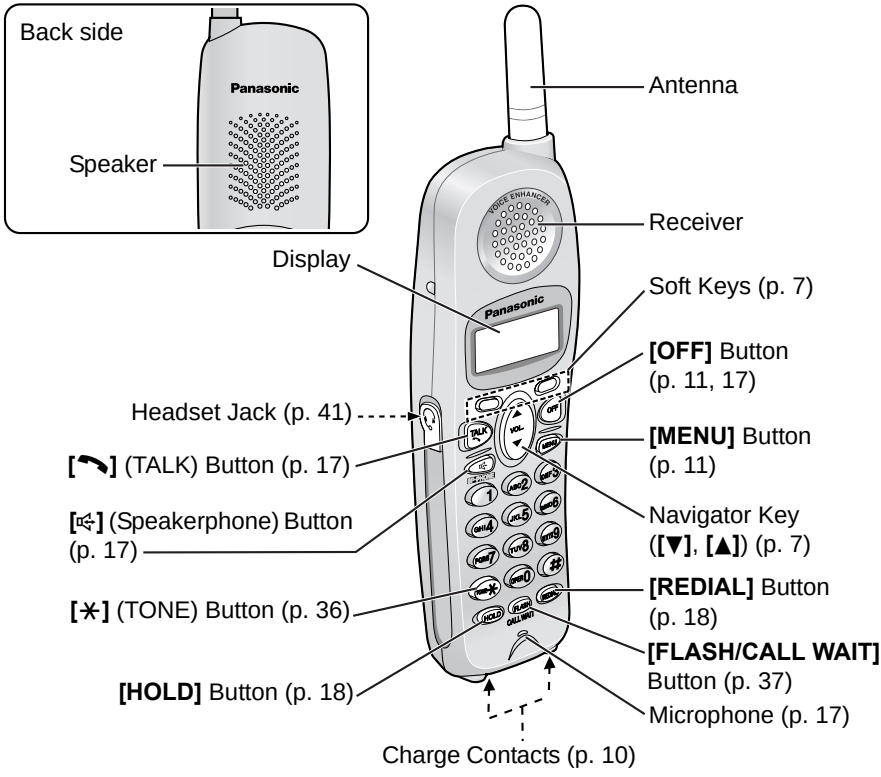
Handset: Perform with the handset.
Base Unit: Perform with the base unit.
Handset & Base Unit: Perform with the handset and base unit together.

Location of Controls

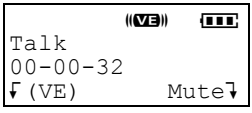
Base unit



Handset



Handset soft keys



Two soft keys are used to select functions displayed directly above each key. Functions displayed above the keys will change depending on the state of use.

On this sample display, "(VE)" and "Mute" are displayed above soft keys.

Pressing the right soft key selects mute "Mute".

Pressing the left soft key selects Voice Enhancer "(VE)".

- When a function name does not appear above a soft key, the soft key has no function.

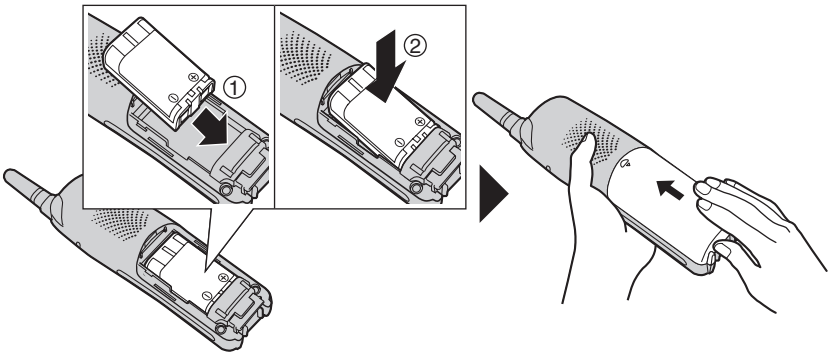
Handset navigator key

Scrolls up **[▲]** and down **[▼]** the function menu, the Caller List and the phone book.
Increases **[▲]** or decreases **[▼]** the handset ringer and receiver/speaker volumes.

Throughout these Operating Instructions:
- The soft keys are indicated by what is displayed above the keys.
  Ex. "Press **Mute**." indicates "Press the soft key below Mute".
- The navigator key is indicated by the arrows **[▼]** or **[▲]**.

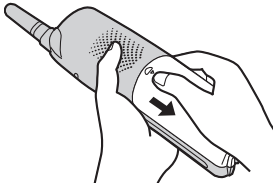
Installing the Battery in the Handset

Insert the battery (①), and press it down until it snaps into the compartment (②). Close the cover.



To replace the battery:

Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with a new one (p. 10). Close the cover and charge the battery for 6 hours.



Battery Charge

Place the handset on the base unit.
Charge for **6 hours** before initial use.

- The unit beeps once, the CHARGE indicator lights, and "`Charging`" is displayed.
- When the battery is fully charged, "`Charge completed`" is displayed.

Battery strength

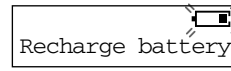
You can confirm battery strength on the handset display.
Battery strength is indicated by the icons shown in the chart to the right.

Display prompt	Battery strength
	Fully charged
	Medium
	Low
(flashing)	Needs to be recharged.
	Discharged

Installation

Recharge

Recharge the battery when:
—"Recharge battery" is displayed on the handset,
—"▭" flashes, or
—the handset beeps intermittently while it is in use.



- The display will continually indicate "Recharge battery" and/or "▭" will flash when the handset battery is charged for less than 15 minutes and the handset is lifted off the base unit.
- If the battery has been discharged, the handset will display "Charge for 6h" and "▭" when you place the handset on the base unit. The handset will not work unless the battery is charged. Continue charging.

Battery replacement:
If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, "Recharge battery" is displayed and/or "▭" continues to flash, or "Charge for 6h" and "▭" are displayed, the battery may need to be replaced. Please order a new Panasonic HHR-P104 battery at the telephone number shown on page 2. To replace the battery, see page 9.

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

Operation	Operating time
While in use (TALK)	Up to 5 hours
While not in use (Standby)	Up to 11 days

- A fully charged battery will give you up to 5 hours of continuous talk time, or keep your handset in Standby mode to receive incoming calls for up to 11 days (if no phone calls are made). Battery power is consumed whenever the handset is off of the base unit, even when the handset is not in use. The longer you leave the handset off of the base unit, the time you can actually talk on the handset will be shortened. Actual battery performance depends on a combination of how often the handset is in TALK mode and how often it is in Standby mode.
- If the battery is fully charged, you do not have to place the handset on the base unit until "Recharge battery" is displayed and/or "▭" flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the handset on the base unit when the handset is not used. The battery cannot be overcharged.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.

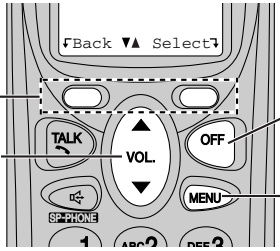
Programmable Settings

Programming Guidelines Handset

This unit has several programmable functions which can be selected from the function menu on the display (p. 12).

The soft keys selects the functions displayed above each soft key.

When "▼" or "▲" is displayed, navigator key scrolls through the menu.



[OFF] exits programming.

[MENU] enters the function menu.

How to select a function item from the menu

Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.

1 Press **[MENU]**.
- The main menu is displayed (p. 12).

2 Scroll to the desired item by pressing **[▼]** or **[▲]**.

3 Press **Select** to select the desired item.

4 If the item has a sub-menu, select the menu item (p. 12). Repeat steps 2 and 3 until the desired item is displayed. If the item has no sub-menu, go to step 5.

5 Select the desired setting by pressing **[▼]** or **[▲]**, then press **Save** to save your setting.
- A confirmation tone will be heard and the setting will be saved.

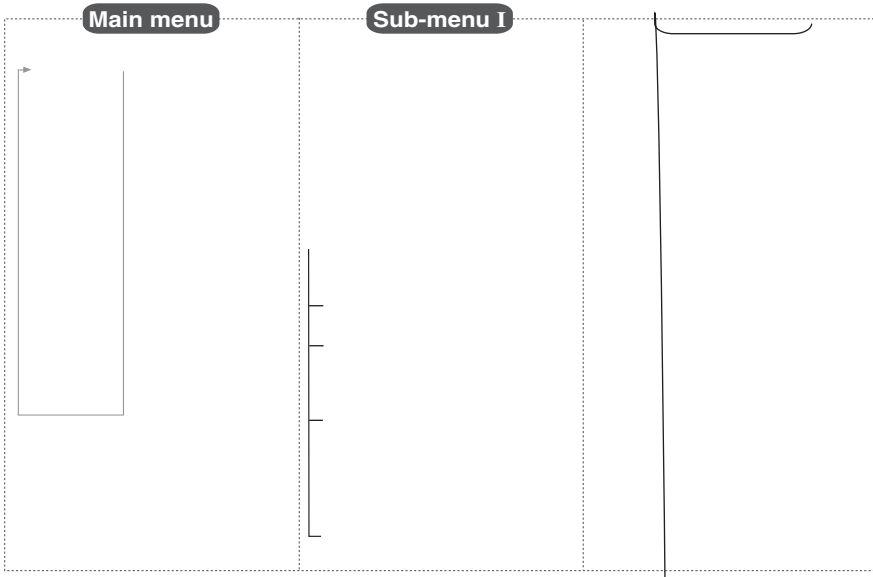
6 Press **[OFF]** to exit programming mode.

- To go back to the previous menu, press **Back**, or press **Select** while "---(Go back)----" is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on which menu the selected item is located. (See the menu table on page 12.)
- You can exit programming mode at any time by pressing **[OFF]**.
- If you do not press any buttons for 60 seconds, the handset will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 43) and/or error beeps will sound.

Function Menu Table Handset

You can use the following functions to customize your unit. See the corresponding pages for function details.

- After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**) instead of using the soft keys (p. 42).

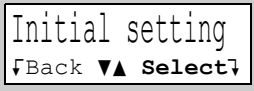


Display Language Handset

You can select either “English” or “Spanish” as the display language. The factory preset is “English”.

1 Press **[MENU]**.

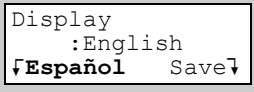
2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to “Change language” by pressing **[▼]** or **[▲]**, then press **Select**.

4 To change from English to Spanish, press **Español**.
To change from Spanish to English, press **English**.

- The display changes to the selected language.
- You can also select a language by pressing **[▼]** or **[▲]**.



5 When Spanish is selected, press **Salvar**, then press **[OFF]**.
When English is selected, press **Save**, then press **[OFF]**.

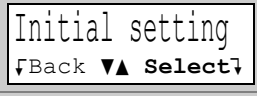
- If you select a language you cannot read, change the display language again using direct commands (p. 42).

Dialing Mode Handset

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

1 Press **[MENU]**.

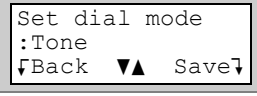
2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Press **Select** at “Set dial mode”.

5 Select “Pulse” or “Tone” by pressing **[▼]** or **[▲]**.



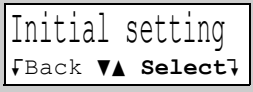
6 Press **Save**, then press **[OFF]**.

Line Mode Handset

The line mode is preset to "B" and generally should not be adjusted. If "Line in use" on the handset is not displayed properly or the IN USE indicator on the base unit does not light properly, the line mode selection is incorrect. Set line mode to "A".

1 Press **[MENU]**.

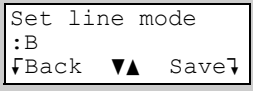
2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to "Set tel line" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Scroll to "Set line mode" by pressing **[▼]** or **[▲]**, then press **Select**.

5 Select "A" or "B" by pressing **[▼]** or **[▲]**.



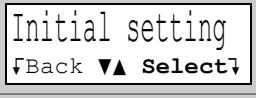
6 Press **Save**, then press **[OFF]**.

Auto Talk Handset

The Auto Talk feature allows you to answer calls by simply lifting the handset off the base unit. You do not need to press **[ ]** or **[ ]**. The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to "Auto talk" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select "On" or "Off" by pressing **[▼]** or **[▲]**.

5 Press **Save**, then press **[OFF]**.

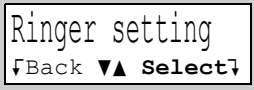
- In order to view Caller ID information after you lift the handset to answer a call, leave the Auto Talk feature turned off.

Ringer Volume Handset

You can select the handset ringer volume to high, medium, low, or off. The factory preset is HIGH. If the ringer is turned off, the handset will not ring.

1 Press **[MENU]**.

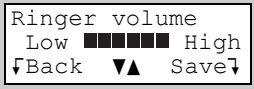
2 Scroll to "Ringer setting" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Press **Select** at "Ringer volume".

4 Select the desired volume level by pressing **[▼]** or **[▲]**.
- The volume will change and ring.
- The number of steps indicates the volume level.
- **To turn the ringer off,** press **[▼]** repeatedly until "Off ?" is displayed.

Ex. High



5 Press **Save**.

- If the handset ringer is turned off, "Ringer off" will be displayed while not in use. If the handset is off the base unit when there are missed calls or new messages in your voice mailbox (p. 35), "Ringer off" is not displayed.
- You can adjust the ringer volume while an outside call is ringing. Press **[▼]** or **[▲]** while the handset is ringing.

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring again as normal the next time a call is received.

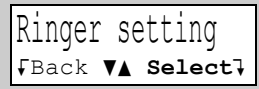
Ringer Tone Handset

You can set the handset ringer to use one of 7 ringer patterns for outside calls. “Tone 1” to “Tone 3” are bell ringer patterns. “Melody 1” to “Melody 4” are melody patterns. The factory preset is “Tone 1”.

- If you subscribe to a Distinctive Ring Service (such as IDENTA-RING) from your telephone company with 2 or 3 consecutive rings, select a bell ringer pattern (Tone 1 to 3). If you select a melody pattern, you will not be able to distinguish lines by their ringers.
- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
  — the caller hangs up before you answer the call, or
  — another person answers the call using another phone connected on the same line.

1 Press **[MENU]**.

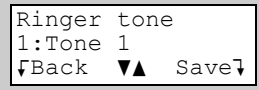
2 Scroll to “Ringer setting” by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to “Ringer tone” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select the desired ringer tone by pressing **[▼]** or **[▲]**.

- The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 15).
- You can also select the ringer tone by pressing **[1]** to **[7]**.



5 Press **Save**, then press **[OFF]**.

LCD Contrast Handset

There are 6 levels of LCD contrast. The factory preset is “level 3”.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “LCD contrast” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select the desired contrast by pressing **[▼]** or **[▲]**.

- The contrast will change.

Ex. Level 3

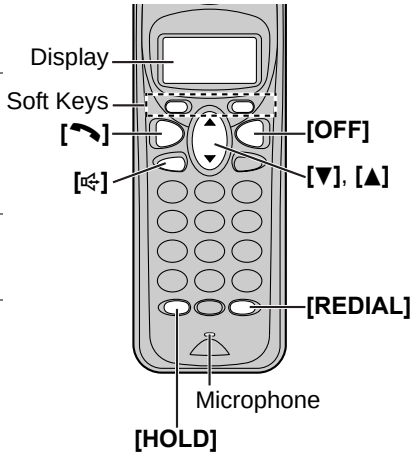
5 Press **Save**, then press **[OFF]**.

Making Calls

1 Press **[ ]**.
- "Talk" is displayed.

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.

ang up, press **[OFF]** or place ndset on the base unit.



ee phone conversation

show the length of the call.

nto the microphone.

ndset on the base unit.

to decrease the

one conversation

To dial after confirming the entered number

1 Enter a phone number.

- If you misdial, press **Clear**. Enter the correct number.
- If a pause is required when dialing, press **Pause** where needed (p. 36).
- To cancel, press **[OFF]**.

2 Press **[ ]** or **[ ]**.

3 To hang up, press **[OFF]** or place the handset on the base unit.

To adjust the receiver/ speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.
To decrease volume, press **[▼]**.

Ex. Receiver volume: High
Speaker volume: Level 6

- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/ minimum level, the handset will beep 3 times.

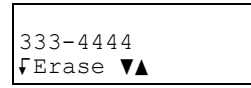
To redial the last number dialed

Press **[ ]** or **[ ]**, then press **[REDIAL]**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1 Press **[REDIAL]**.



- The last number dialed is displayed.

2 Scroll to the desired number by pressing **[▼]** or **[▲]**.

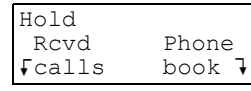
- You can also scroll down through the list by pressing **[REDIAL]**.
- To exit the list, press **[OFF]**.

3 Press **[ ]** or **[ ]**.

- **To erase an item,** scroll to the item then press **Erase**.
- If "No items stored" is displayed, the list is empty.

To put a call on hold

Press **[HOLD]** during a conversation.



To return to the call, press **[ ]** or **[ ]**.

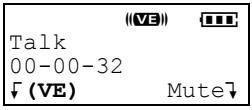
- If another phone is connected on the same line (p. 8), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold, the call will be disconnected.

Voice Enhancer Technology

Panasonic's Voice Enhancer Technology clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand.
Voice Enhancer Technology can be turned on or off. The factory preset is OFF.

- Depending on the condition and quality of your telephone line, this feature may emphasize existing line noise. If it becomes difficult to hear, turn this feature off.

To turn this feature on, press **(VE)** during a conversation.



- "(VE)" is displayed.
- **To turn this feature off,** press **(VE)** again. "(VE)" disappears from the display.
- After hanging up a call, the on/off setting will be retained.

- If you store a voice mail access number (p. 33), "VM" will be displayed instead of "(VE)" for 15 seconds after pressing **[ ]** or **[ ]**.

When the handset is not in use, you can also turn this feature on or off by programming as follows:

1. Press **[MENU]**.
2. Scroll to "Voice enhancer" by pressing **[▼]** or **[▲]**, then press **Select**.
3. Select "On" or "Off" by pressing **[▼]** or **[▲]**.
4. Press **Save**, then press **[OFF]**.

Backlit LCD display/Lighted handset keypad

The handset display and dialing buttons will light for a few seconds after pressing a button or lifting the handset off the base unit.

Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller names and phone numbers will be displayed and recorded in the Caller List.

How Caller ID information is displayed

When a call comes in, the unit will ring and Caller ID information will be received. The display will show the caller's information.*

- After you answer the call, the display will show the length of the call.

Example

```
ROBINSON,TINA
1-555-222-3333
```

***Personalized Name Display**

If you receive a call from one of the same phone numbers stored in the phone book, the handset will show the caller's name stored in the phone book instead of incoming caller's name.

- If the unit does not receive Caller ID information, one of the following will be displayed:

Display	Meaning
`Out of area`	The caller dialed from an area which does not provide Caller ID service.
`Private caller`	The caller requested not to send his/her information.
`Long distance`	The caller made a long distance call.

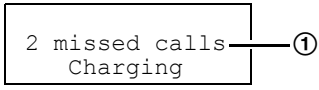
- Depending on the radio communications with the base unit, the handset may not display Caller ID information immediately after the first ring.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID service.
- Name display service may not be available in some areas. For further information, please contact your telephone company.
- If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, a call waiting tone will be heard and the second caller's information will be displayed on the handset in use (p. 37). Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.

Using the Caller List

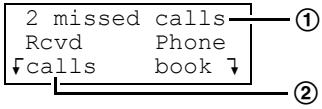
The unit can record information up to 30 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 31st call is received, the information from the 1st call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.

Handset on the base unit



Handset off the base unit



① The display will show the number of calls you missed.

② Press **Rcvd calls** to review other calls logged in the Caller List.

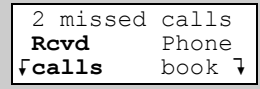
- If there are no items in the Caller List, "Rcvd calls" will not be displayed.
- After viewing the missed call entries, "missed calls" will disappear from the display.

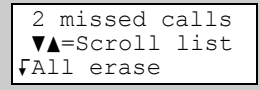
- When your voice mailbox has received message(s), "Voice Mail" will be displayed in place of missed calls display (p. 35).

Viewing the Caller List Handset

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

Ex. 2 calls missed.

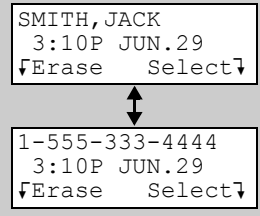




2 To search from the most recent call, press **[▼]**. To search from the oldest call, press **[▲]**.

- The caller's name, number and the time and date of the call are displayed. Name and phone number are alternately displayed as shown on the right.

Example



3 Press **[OFF]** to exit the list.

- If there is no name information for a caller and you do not store the name and phone number in the phone book, the display will only show the phone number.
- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.

What "✓" means

"✓" indicates you have already viewed this calling information or answered the call. If the same caller calls again, the call entry with the "✓" will be replaced with the new call entry.

```
SMITH,JACK
 3:10P JUN.29 ✓
```

If a caller calls more than once

The number of times the same caller called is displayed ("×2" to "×9"). The date and time of the most recent call will be recorded. After viewing a caller's information, "×2" to "×9" will be replaced with "✓".

Ex. Called 2 times.

```
TURNER,CINDY
11:20A JUN.12 ×2
```

Calling Back from the Caller List Handset

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.

3 Press **[ ]** or **[ ]**.

- The phone number is dialed.

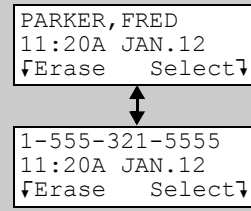
- In some cases, you may have to edit the number before dialing (p. 24). (Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

Editing the Caller's Phone Number Handset

You can edit a phone number in the Caller List by removing its area code and/or the long distance code "1".
Once you call back an edited number, this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call (**Caller ID Number Auto Edit**, page 25).

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.



3 Press **Select**.

4 Press **Edit** repeatedly until the number is shown in the desired format.

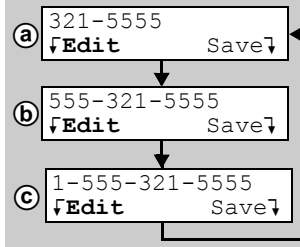
- Each time you press **Edit**, the number is rearranged into one of 3 patterns.

ⓐ [Phone no.]

ⓑ [Area code]–[Phone no.]

ⓒ 1–[Area code]–[Phone no.]

- The order in which patterns ⓐ – ⓒ are displayed depends on how the telephone number is displayed in step 2.



5 **To call the edited number,** press **[ ]** or **[ ]**.

- If Caller ID Number Auto Edit is turned on (factory preset is on), phone numbers with the same area code as the number you edited will now be edited in the Caller List and each time you receive a call.
- You can press **[OFF]** immediately after pressing **[ ]** or **[ ]** if you wish to activate the Auto Edit feature without actually dialing the number you just edited.

To save the edited number into the phone book, press **Save**.

- If there is no name information, see "Storing Caller Information in the Phone Book" on page 26, from step 4.
- Even if the Auto Edit feature is turned on, this feature will not be activated by saving the edited number in the phone book.

- If you receive a call from a 7-digit phone number stored in the phone book, "Edit" will not be displayed in step 4.

Caller ID Number Auto Edit Handset

Once you call back an edited number (p. 24), this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call. For example, it can ignore the area code of calls originating from your area code, so that you can call these numbers from the Caller List without dialing the area code.

To activate this feature, you must edit a caller's phone number in the Caller List (p. 24) by selecting pattern ⓐ, ⓑ, or ⓒ, then make a call to that number. Calls from numbers in that area code will be edited automatically. The unit can remember up to 4 area codes to be edited according to patterns ⓐ and ⓑ.

When more than 5 area codes are edited, older area codes are reset to pattern ⓒ. Phone numbers from the 4 most recently edited area codes will be automatically edited.

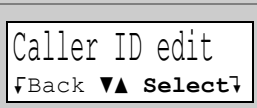
You can turn this feature on or off using the handset. The factory preset is ON.

To turn Caller ID Number Auto Edit on or off

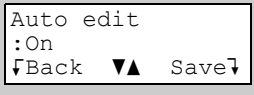
1 Press **[MENU]**.

2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "`Caller ID edit`" by pressing **[▼]** or **[▲]**, then press **Select**.



4 Select "`Off`" or "`On`" by pressing **[▼]** or **[▲]**.



5 Press **Save**, then press **[OFF]**.

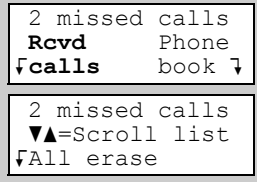
- If you fail to reach your destination when making a call, the phone number you dialed might have an incorrect pattern. Edit the phone number with another pattern (p. 24).
- When this feature is turned off, the unit will still be able to display Caller ID, but incoming Caller ID numbers will not be automatically edited.
- If you move to another area, you may need to turn this feature off to erase the previously edited area codes. To use this feature again, turn it on and reprogram the area codes you want to edit once again.

Storing Caller Information in the Phone Book

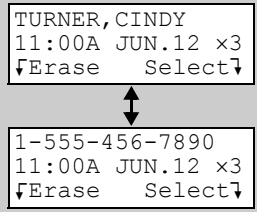
Handset

Caller names and phone numbers that are in the Caller List can be stored in the phone book.

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.



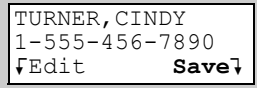
2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.



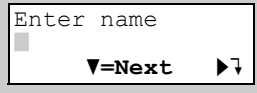
3 Press **Select**.

- If the number requires editing, see page 24.

4 Press **Save**.



- If there is no name information for the caller, "Enter name" will be displayed.
  - —You can enter a name by performing the following steps:
    (1) enter the name (p. 29),
    (2) press **[▼]**, and
    (3) press **Save**.
  - —If a name is not required, press **[▼]**, then press **Save**.
- To continue storing other items, repeat from step 2.
- To exit programming mode, press **[OFF]**.

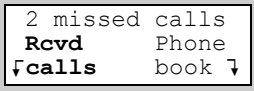


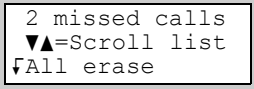
- You cannot store Caller List item in the phone book if a phone number is not displayed.

Erasing Caller Information Handset

To erase a specific caller

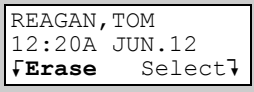
1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.





2 Scroll to the desired caller by pressing **[▼]** or **[▲]**, then press **Erase**.

- To erase other items, repeat step 2.
- To exit the Caller List, press **[OFF]**.

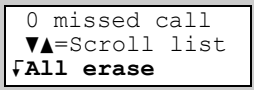


To erase all entries

Before erasing all entries, make sure that you have viewed all missed calls.

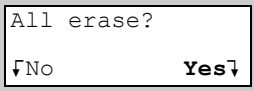
1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

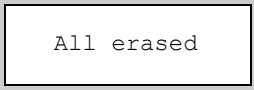
2 Press **All erase**.



3 Press **Yes**.

- All entries in your Caller List are erased.





- To cancel erasing, press **No** after step 2.

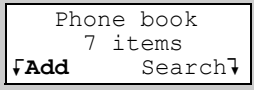
Phone Book

The handset can store up to 30 names and phone numbers in its phone book. You can make a call by selecting a name or number from the phone book.

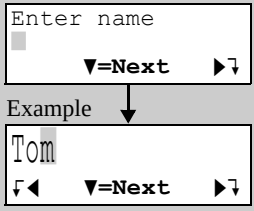
Storing Names and Numbers Handset

1 Press **Phone book**.

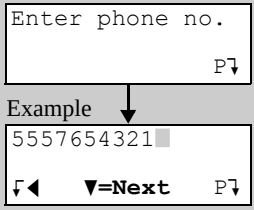
2 Press **Add**.
- The display will show the number of stored items.



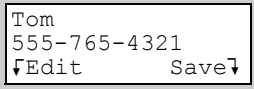
3 Enter a name of up to 16 characters with the dialing buttons (**[0]** to **[9]**) (p. 29), then press **[▼]**.
- If a name is not required, press **[▼]** then go to step 4.



4 Enter a phone number of up to 32 digits.
- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.
- If a pause is required when dialing, press **P**. A pause is stored in a phone number as one digit (p. 36).



5 Press **[▼]**.
- If you want to change the name, press **Edit**. The display returns to step 3. Change the name.
- If you want to change the number, press **[▲]**. The display returns to step 4. Change the number.



6 Press **Save**.
- To continue storing other items, repeat from step 2.

7 Press **[OFF]**.

- To store numbers for calling card access (see “Chain Dial” on page 31), we recommend you add pauses after each item. Storing pauses with numbers will prevent misdialing (p. 36). The delay time necessary will depend on your telephone company.

2 Press
the curs

3 Press **[6]** onc

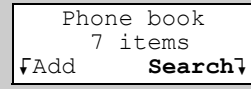
If you make a mista

Use ◀ to erase the incorre
erased. Re-enter the cor

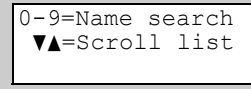
Dialing from the Phone Book Handset

1 Press **Phone book**.

2 Press **Search**.



3 Scroll to the desired item. To scroll down, press **[▼]**. To scroll up, press **[▲]**.



Phone book items are sorted in the following order:	
1	Alphabet letters (Alphabetical)
2	Space & ' ( ) , – . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

4 Press **[ ]** or **[ ]**.
- The displayed phone number is dialed.

- If "No items stored" is displayed in step 1, the phone book is empty.
- To exit the phone book, press **[OFF]**.
- To view a phone number over 16 digits long, repeat steps 1 to 3, then press **Edit** and then **[▼]**. When finished, press **[OFF]**.
- To quickly search the desired item, press **[▼]** or **[▲]** after step 1.

To search for a name by initial

1. Press **Phone book**.
2. Press **Search**.
3. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index on page 31).
   Ex. To find "Frank", press **[3]** repeatedly until the first item under "F" is displayed.
   - If there are no items beginning with the character you selected, the first item in the next alphabetical index will be displayed.
4. Press **[▼]** repeatedly until the desired name is displayed.

Index table

Keys	Index	Keys	Index
[1]	Symbols, 1	**[6]**	M, N, O, 6
[2]	A, B, C, 2	**[7]**	P, Q, R, S, 7
[3]	D, E, F, 3	**[8]**	T, U, V, 8
[4]	G, H, I, 4	**[9]**	W, X, Y, Z, 9
[5]	J, K, L, 5	**[0]**	0, Space

Chain Dial Handset

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination number from the phone book.

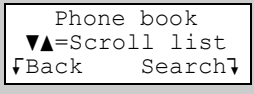
Ex. Using a long distance calling card

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 28).

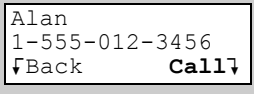
1. Search and dial from phone book: 1-800-012-3456 (Calling card access number)
   - The voice guidance may be announced.
2. Search and dial from phone book: 1234 (Calling card PIN)
3. Search and dial from phone book: 1-555-012-3456 (Destination number)

1 **While you are on a call;**
Press **[MENU]**.

2 Search for the desired item by pressing **[▼]** or **[▲]**.
- To search for an item by initial, see page 30.



3 Press **Call**.
- The phone number is dialed.
- If required, repeat steps 1 to 3 for any remaining numbers.



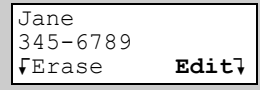
- If you have rotary or pulse service, you need to press **[✳]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.

Editing an Item in the Phone Book Handset

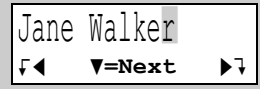
1 Press **Phone book**.

2 Press **Search**.

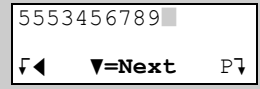
3 Scroll to the desired item by pressing **[▼]** or **[▲]**, then press **Edit**.
- To search for the item by initial, see page 30.



4 Edit the name (p. 29), then press **[▼]**.
- If you do not need to change the name, press **[▼]** then go to step 5.



5 Edit the phone number, then press **[▼]**.
- If you do not need to change the number, press **[▼]** then go to step 6.
- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.



6 Press **Save**.
- To continue editing other items, repeat from step 3.

7 Press **[OFF]**.

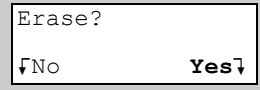
Erasing an Item in the Phone Book Handset

1 Press **Phone book**.

2 Press **Search**.

3 Scroll to the desired item by pressing **[▼]** or **[▲]**, then press **Erase**.
- To search for the item by initial, see page 30.

4 Press **Yes**.
- To erase other items, repeat from step 3.



5 Press **[OFF]**.

- To cancel erasing, press **No** after step 3.

Voice Mail Service

Voice mail is an automatic answering service offered by your telephone comp
you subscribe to this service, your telephone company's voice mail system ca
answer calls for you when you are unavailable to answer the phone or when
line is busy. Callers can leave messages that are saved in virtual voice mailb
which are maintained for you at the phone company, allowing you to listen to
messages whenever you like. The unit will let you know that someone has left
mail for you (p. 35). Once you have stored your voice mail access number, yo
access your voice mailbox simply by pressing **[MENU]** on the handset, then
selecting **Select** at "V.M. access".

Storing a Voice Mail Access Number

4 P

5 Enter yo

- If a pause is
- Each time you
  To erase all of t

6 Press **[MENU]** to sa
[OFF].

*To prevent misdialing, you may
number and your mailbox passwo
Ex. 1-222-33

Pressing P once creates a 3.5 second delay a
time necessary between entering your access n
mailbox password will depend on your telephone c

To erase a stored voice mail access num

Repeat steps 1 to 4, then press and hold ◀ until all of the
Press **[MENU]**, then press **[OFF]**.

Setting Voice Mail (VM) Tone Detection Handset

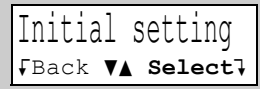
Your telephone company sends special signals (Voice mail tones) to the unit. Press **[ ]** or **[ ]** to listen to the dial tone. If you hear a series of dial tones followed by a continuous dial tone, this indicates that a new message was recorded. Voice Mail detection is preset at the factory to ON. Minutes after you hang up or after the phone stops ringing, your unit will seize the phone line and check if a message has been recorded. If a new message was recorded at your telephone company, "Voice Mail" will be displayed on the handset.

Turn off this programming when:
—you do not subscribe to a voice mail service,
—your telephone company does not send a series of tones, followed by a continuous tone to indicate you have new voice mail, or
—your phone is connected to a business or office telephone system (PBX).

See below to turn this setting off.
If you are not sure which setting is required, consult your local telephone company or contact the Panasonic Customer Call Center.

1 Press **[MENU]**.

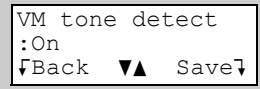
2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Press **Select** at "Voice Mail".

4 Scroll to "VM tone detect" by pressing **[▼]** or **[▲]**, then press **Select**.

5 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

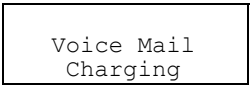


6 Press **Save**, then press **[OFF]**.

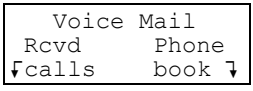
Listening to Voice Mail Messages Handset

The unit will let you know that someone has left new voice mail for you when "Voice Mail" will be displayed on the handset.

Ex. Handset on the base unit



Ex. Handset off the base unit

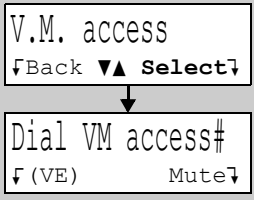


To listen to your voice mail message(s)

1 Press **[MENU]**.

2 Press **Select** at "V.M. access".

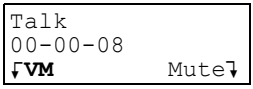
- The handset is connected to the telephone line and dials the access number (p. 33) in speakerphone mode.
- If the handset beeps 3 times and "Store VM access#" is displayed, a voice mail access number is not stored. To store the number, see page 33.



3 Follow the pre-recorded instructions.

4 When finished, press **[OFF]**.

- You can also listen to your voice mail message(s) by using **[ ]** or **[ ]**.
  1. Press **[ ]** or **[ ]**.
  2. Press **VM** within 15 seconds.
     - After 15 seconds, "VM" will disappear and "(VE)" will be displayed.
     - If a voice mail access number is not stored, "VM" will not be displayed. To store the number, see page 33.
  3. Follow steps 3 and 4 of "To listen to your voice mail message(s)" above.



- If the handset still indicates you have new messages even after you have listened to them, turn the voice mail indicators off by pressing and holding **[OFF]** until the handset beeps. "Voice Mail" will disappear.
- If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, "Voice Mail" may not be displayed.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

Special Features

Handset Locator Base Unit

You can locate the handset or page the handset user with beep tones from the base unit.

1 Press **[HANDSET LOCATOR]**.

- The IN USE indicator flashes rapidly.
- The paged handset beeps for 1 minute and displays "Call from Base".

2 To stop paging,
Base unit: Press **[HANDSET LOCATOR]** again.
OR
Handset: Press **[OFF]**.

- You can also stop paging by pressing any button except **[▼]** or **[▲]**.

Temporary Tone Dialing
(For Rotary or Pulse Service Users) Handset

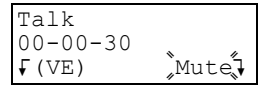
Press **[✳]** (TONE) before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

Muting Your Conversation Handset

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

Press **Mute**.

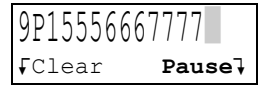


- "Mute" will flash.
- **To release the mute,** press **Mute** again.
- If you press **[ ]** or **[ ]** to switch between the receiver and speaker, the mute will be released.

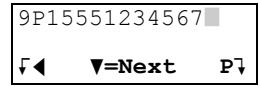
Using the PAUSE Key
(For PBX Line/Long Distance Calls) Handset

We recommend you press **Pause** or **P** if a pause is required for dial with a PBX or to make a long distance call.

Example



OR



Ex. Line access number **[9]** (PBX)

[9] ➡ **Pause** or **P** ➡ Phone number

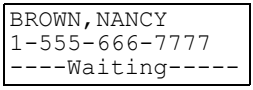
- Pressing **Pause** or **P** once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 18) or dial a stored number (p. 30, 31).
- Pressing **Pause** or **P** more than once increases the length of the pause between numbers.

For Call Waiting Service Users Handset

Press **[FLASH/CALL WAIT]** if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold.
- If this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID display



If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, the second caller's information will be displayed. After you hear a call waiting tone while talking, the display shows the caller's name with the phone number and "`----Waiting-----`".

- Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.

FLASH Button Handset

Pressing **[FLASH/CALL WAIT]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as call waiting.

- Pressing **[FLASH/CALL WAIT]** cancels Temporary Tone Dialing mode or the mute (p. 36).

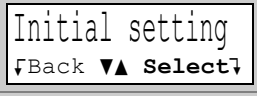
Selecting the flash time

The flash time required depends on your telephone exchange or host PBX. You can select the following flash times: "700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)". The factory preset is "700 ms".

- If PBX functions do not work correctly, consult your PBX supplier for the correct settings.

1 Press **[MENU]**.

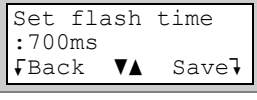
2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to "`Set tel line`" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Scroll to "`Set flash time`" by pressing **[▼]** or **[▲]**, then press **Select**.

5 Select the desired time by pressing **[▼]** or **[▲]**.



6 Press **Save**, then press **[OFF]**.

Key Tone Handset

You can select whether or not the handset keys will sound tones (key tone, confirmation tone, error tone). The factory preset is ON.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "Key tone" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

5 Press **Save**, then press **[OFF]**.

Re-registering the Handset Handset & Base Unit

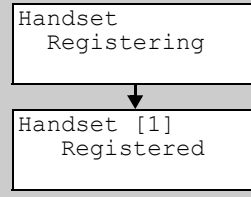
If "No link to base. Move closer to base, try again." is displayed even when using the handset near the base unit, the handset may have lost communication with the base unit. You need to re-register the handset to the base unit.

- **Have both the handset and base unit nearby during registration.**
- **Follow steps 1 and 2 listed below. You have about 1 minute to complete them.**

1 *Base unit:*
Press and hold **[HANDSET LOCATOR]** until the CHARGE indicator flashes.

2 *Handset:*
Press and hold **[FLASH/CALL WAIT]** until "Handset Registering" is displayed.

- When registration is complete, a beep sounds from the handset.
- **Wait for 20 seconds after registration is complete while the handset establishes communication with the base unit.**

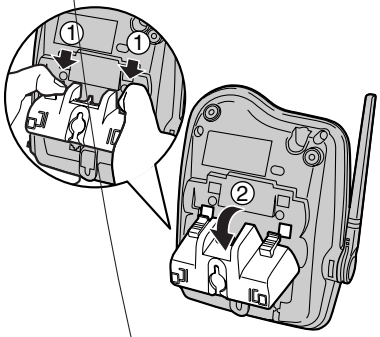


- If the handset beeps 3 times and "Error!" is displayed, an error occurred. Try again from step 1.
- You can stop registration by pressing **[OFF]** on the handset, and pressing **[HANDSET LOCATOR]** on the base unit.

Wall Mounting

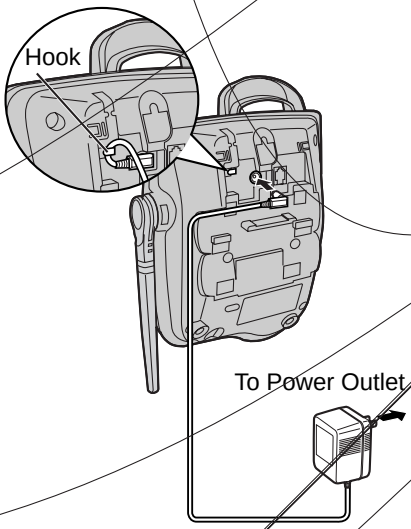
This unit can be mounted on a wall phone plate.

1 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).



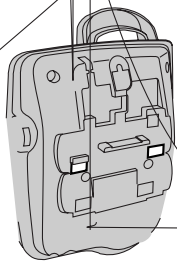
2 Connect the AC adaptor.

- Fasten the AC adaptor cord to prevent it from being disconnected.



3 Tuck the telephone line cord inside the wall mounting adaptor, then push the adaptor in the direction of the arrows (① and ②) while pressing the tabs.

- The word “UP WALL” should face upward.



4 Connect the telephone line cord. Mount the unit, then slide it down.

- Raise the antenna.

5 **To charge the handset battery:**
Place the handset on the base unit.

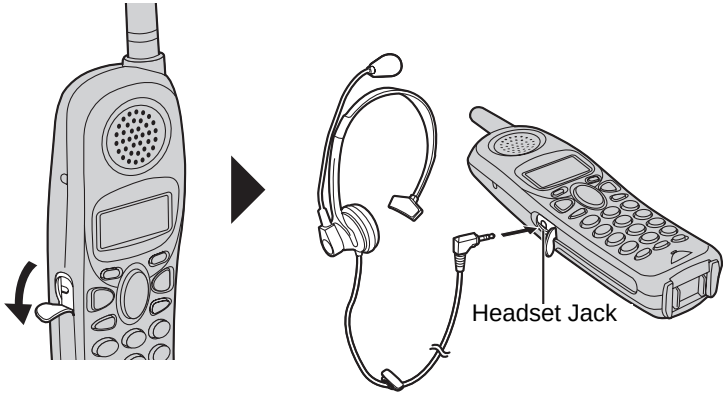
- The unit beeps once and the CHARGE indicator lights.

Optional Headset

Connecting an optional headset to the handset allows hands-free phone conversation. Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.



• Headset sold separately. Model shown here is KX-TCA88.

To switch to the speakerphone while using the headset:
Press **[ ]**. To return to the headset, press **[ ]**.

Direct Commands

After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**) instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	**[1] [1]**	**[0]** : Off **[1]** : Low **[2]** : Medium **[3]** : High	p. 15
Ringer tone	**[1] [2]**	**[1]**–**[3]** : Tone pattern 1–3 **[4]**–**[7]** : Melody pattern 1–4	p. 16
V.M. access	**[3]**		p. 35
Voice enhancer	**[5]**	**[1]** : On **[0]** : Off	p. 19
LCD contrast	**[0] [1]**	**[1]**–**[6]** : Level 1–6	p. 16
Key tone	**[0] [2]**	**[1]** : On **[0]** : Off	p. 38
Auto talk	**[0] [3]**	**[1]** : On **[0]** : Off	p. 14
Caller ID number auto edit	**[0] [4]**	**[1]** : On **[0]** : Off	p. 25
Set dial mode	**[0] [5] [1]**	**[1]** : Pulse **[2]** : Tone	p. 13
Set flash time	**[0] [5] [2]**	**[1]** : 700 ms **[2]** : 600 ms **[3]** : 400 ms **[4]** : 300 ms **[5]** : 250 ms **[6]** : 110 ms **[7]** : 100 ms **[8]** : 90 ms	p. 37
Set line mode	**[0] [5] [3]**	**[1]** : A **[2]** : B	p. 14
Store VM access#	**[0] [7] [1]**	Go to Step 5 on page 33.	—
VM tone detect	**[0] [7] [2]**	**[1]** : On **[0]** : Off	p. 34
Change language	**[0] [8]**	**[1]** : English **[2]** : Spanish	p. 13

During programming:
When "Save" is displayed, press the right soft key **to save the new settings**.
To exit programming, press **[OFF]**.

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.

If the Following Appear on Your Display...

The following will be displayed when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery	• The battery needs to be charged. Recharge the battery (p. 9).
Charge for 6h	• The battery has been discharged. The handset will not work. Fully charge the battery (p. 9).
No link to base. Move closer to base, try again.	• The handset has lost communication with the base unit. Walk closer to the base unit and try again or re-register the handset (p. 38). • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antenna.
Please lift up and try again.	• A handset button was pressed while the handset was on the base unit. Lift the handset and press the button again.
Error!!	• When you tried to re-register the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again.
Phone book full	• When you tried to store an item in the phone book, the phone book memory was full. Press **[OFF]** to exit the programming mode. To erase other items from the phone book, see page 32.
System is busy. Please try again	• The handset has lost communication with the base unit. Walk closer to the base unit and try again.

Troubleshooting

If the handset display shows error messages, see "If the Following Appear on Your Display..." (p. 43) for the Cause & Remedy.

Problem	Cause & Remedy
"No link to base. Move closer to base, try again." is displayed and an alarm tone sounds.	• You are too far from the base unit. Walk closer to the base unit. • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antenna. • If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (p. 38).
The handset and/or base unit does not work.	• Check the settings (p. 8 – 10). • Check whether the dialing mode setting is correct (p. 13). • Fully charge the battery (p. 9). • Clean the charge contacts and charge again (p. 10). • Check battery installation (p. 9). • Unplug the base unit's AC adaptor to reset it. Plug in, and try again. • Re-install the battery (p. 9) and fully charge it.
Static, sound cuts in/out, fades. Interference from other electrical units.	• Move the handset and base unit away from other electrical appliances (p. 3). • Walk closer to the base unit. • Raise the base unit antenna.
The handset does not ring.	• The ringer volume is turned off. Set to high, medium, or low (p. 15).
The handset display is blank.	• If the handset display is blank, fully charge the battery (p. 9).
You cannot program any function items.	• Programming is not possible while the handset and/or base unit is being used. • Do not pause for over 60 seconds while programming. • Walk closer to the base unit.
While programming or searching, the handset starts to ring and the program/ search stops.	• A call is coming in. To answer the call, press **[ ]** or **[ ]**. Start again from the beginning after hanging up.

Problem	Cause & Remedy
The handset does not display the caller's name and/or phone number.	• You need to subscribe to Caller ID. • Other telephone equipment may be interfering with your phone. Disconnect it and try again. • Other electrical appliances connected to the same outlet may be interfering with Caller ID. • Telephone line noise may be affecting Caller ID. • The caller requested not to send his/her Caller ID information (p. 21). • If a (separate) Caller ID box is connected between the base unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack.
The handset cannot automatically edit the Caller List/incoming phone numbers.	• The Caller ID number auto edit feature is turned off. Turn it on (p. 25) and try again. • You need to press **[ ]** or **[ ]** after editing the number.
The handset display exits the Caller List or phone book.	• Do not pause for over 60 seconds while searching.
You cannot redial.	• If the last number dialed was more than 48 digits long, the number will not be redialed correctly.
You cannot make long distance calls.	• Please make sure you have long distance service.
"Recharge battery" is displayed, "" flashes, or the handset beeps intermittently.	• Fully charge the battery (p. 9).
"Charge for 6h" and "" are displayed and the handset does not work.	• The battery has been discharged. Fully charge the battery (p. 9). • Check battery installation (p. 9).
You charged the battery fully, but "Recharge battery" is still displayed and/or "" continues to flash, or "Charge for 6h" and "" are displayed.	• Clean the charge contacts and charge again (p. 10). • The battery may need to be replaced. If you install a new battery, fully charge it (p. 9).

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Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.
If requested, this number must be provided to the telephone company.

Registration No. .....(found on the bottom of the unit)
Ringer Equivalence No. (REN) 0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

1) Remain on the line and briefly explain to the dispatcher the reason for the call.
2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

FCC and Other Inf

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Index

A

Accessories 2
Answering calls 20
Auto talk 14, 20

B

Backlit LCD 19
Base unit location 3
Battery charge 3, 9
—Battery information 10
Battery replacement 10
Battery strength 9
Belt clip 39

C

Call Waiting Caller ID display . . . 37
Call waiting tone 37
—Caller ID number auto edit 25
Caller ID service 21
Caller List, editing 24
Caller List, erasing 27
Caller List, storing 26
Caller List, viewing 22
Calling back from the Caller List 23
—Chain dial 31

D

Dialing mode 13
Direct commands 42
Display language 13

F

FCC and other information 48
FLASH button 37
Flash time 37
—Function menu, Direct commands 42
Function menu, selection 11
Function menu, table 12

H

Handset locator 36
Headset, optional 41
Hold 18

I

Installation, AC adaptor 8
Installation, battery 9
Installation, telephone line cord . . . 8

K

Key tone 38

L

LCD contrast 16
Lighted handset keypad 19
Line mode 14
Location of controls 6

M

Making calls 17, 18
Microphone 17
Mute 36

N

Navigator key 7
Noise 3

P

Pause 36
—Phone book 28
Phone book, dialing 30
Phone book, editing 32
Phone book, erasing 32
Phone book, names 29
Phone book, storing 28
Power failure 8
Pulse service 36

R

Redial 18
Redial list 18
—Registration 38
Ringer off 15, 20
Ringer tone 16
Ringer volume 15
Rotary service, tone dialing 36

Index

S

Safety instructions 47
Shipping product
for service. . . . . Back Cover
Shoulder rest attachment 39
Soft keys. 7
Specifications 55
SP-phone 17

T

Troubleshooting 44
TTY. . . . . 2, 54, Back Cover

V

VE (Voice Enhancer) 19
—*VM (Voice Mail)* *33*
—*Voice enhancer technology* *19*
Volume control 18

W

Wall mounting. 40
Warranty 53

• "—" indicates important information and frequently used features.

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.,
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Telephone Limited Warranty

Limited Warranty Coverage

If your telephone (identified in your Operating Instructions) does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Parts	**Labor**
One (1) Year	One (1) Year

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of the original purchase date is required for warranty service.

To obtain service in the USA please contact:

Panasonic Services Company, Panasonic Plus Department
20421 84th Avenue South
Kent, WA 98032
Tel: 1-800-833-9626 Fax: 1-800-237-9080

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.
For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Plus Department at 1-800-833-9626.

When shipping the unit carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint, a return address and a day time phone number where you can be reached.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/support

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:

npcparts@panasonic.com

You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 8 pm, EST.)
Panasonic Services Company
20421 84th Avenue South, Kent, WA 98032
(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company
Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

Specifications

■ **Base Unit**

Power Supply:	AC Adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 2.1 W Maximum: Approx. 5.0 W
Frequency:	2.40 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 124 mm x 155 mm x 174 mm (4 7/8" x 6 3/32" x 6 27/32")
Mass (Weight):	Approx. 330 g (0.73 lb.)

■ **Handset**

Power Supply:	Ni-MH battery (3.6 V, 830 mAh)
Frequency:	2.40 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 208 mm x 52 mm x 39 mm (8 3/16" x 2 1/16" x 1 17/32")
Mass (Weight):	Approx. 190 g (0.42 lb.)
Security Codes:	1,000,000

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

For your future reference

Serial No. _____ Date of purchase _____

(found on the bottom of the unit)

Name and address of dealer _____

For product service

- Visit our website: http://www.panasonic.com/support
- Contact us via the web at: http://www.panasonic.com/contactinfo
- Call us at: 1-800-211-PANA(7262) or 1-800-833-9626

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono inalámbrico fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

If you need assistance with the setup or operation, please call 1-800-211-PANA(7262)
For hearing or speech impaired TTY users, TTY : 1-877-833-8855

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